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GROUP 110

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Applicant: CHING-WU CHU §
Serial No.: File Wrapper Continuing §
Application of §
Serial No. 12,205 filed §
February 6, 1987 § GROUP: 115
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Filed:

For: HIGH TRANSITION TEMPERATURE
SUPERCONDUCTING COMPOSITIONS
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Examiner: D. L. Albrecht §

PRELIMINARY AMENDMENT

Honorable Commissioner of
Patents and Trademarks
Washington, D.C. 20231

Dear Sir:

Please amend the above-identified application as
follows:

IN THE CLAIMS //

Please cancel without prejudice claims 9-16.

Please add new claims 17-21 as follows:

17. A composition of matter comprising a Y-Ba-Cu-O complex of nominal formula $(Y_{1-x}Ba_x)_aCu_bO_y$, wherein "x" is about 0.01 to 0.5, "a" is about 1 to 2, "b" is 1, and "y" is about 2 to about 4, containing a superconductive crystalline phase consisting essentially of Y, Ba, Cu and O which has zero electrical resistance at 77°K or above, said superconductive crystalline phase having a crystal structure uncharacteristic of that of a K_2NiF_4 crystal structure, and said superconductive crystalline phase being present in said composition of matter in a quantity sufficient to provide the composition with a diamagnetic signal at 4.2°K corresponding to at least 24%